

## WEST Search History

DATE: Wednesday, April 09, 2003

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result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

L17	3663615.pn. or 3729508.pn. or 3867433.pn. or 3988358.pn.	10	L17
L16	L15 and nitro	4	L16
L15	L14 and amine	6	L15
L14	4102920.pn. or 4374262.pn. or 4506092.pn. or 4507493.pn. or 4704467.pn. or 5344992.pn.	14	L14
L13	4102920 or 4374262 or 4506092 or 4507493 or 4704467 or 5344992	89	L13
L12	L3 with aryl halide with carbon monoxide	3	L12
L11	l1 with aromatic carboxylic acid ester	7	L11
L10	l1 and aromatic carboxylic acid ester	145	L10
L9	560/20 and l3	3	L9
L8	wo-200061538-\$.did.	1	L8
L7	wo-2000061538-\$.did.	0	L7
L6	L5 and carbon monoxide	3	L6
L5	L3 with aryl halide	3	L5
L4	L3 with nitro\$7 aryl halide	0	L4
L3	L1 with aromatic carboxylic acids	453	L3
L2	L1 and aromatic carboxylic acids	4529	L2
L1	nitro or thioether	169590	L1

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 4 of 4 returned.**☒ 1. Document ID: US 4704467 A

L16: Entry 1 of 4

File: USPT

Nov 3, 1987

US-PAT-NO: 4704467

DOCUMENT-IDENTIFIER: US 4704467 A

TITLE: Method for preparation of mercaptobenzoates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 4507493 A

L16: Entry 2 of 4

File: USPT

Mar 26, 1985

US-PAT-NO: 4507493

DOCUMENT-IDENTIFIER: US 4507493 A

TITLE: Carbonylation process for the production of aromatic acids and derivatives thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 4506092 A

L16: Entry 3 of 4

File: USPT

Mar 19, 1985

US-PAT-NO: 4506092

DOCUMENT-IDENTIFIER: US 4506092 A

TITLE: Carbonylation process for the production of aromatic acids and derivatives thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 4374262 A

L16: Entry 4 of 4

File: USPT

Feb 15, 1983

US-PAT-NO: 4374262

DOCUMENT-IDENTIFIER: US 4374262 A

TITLE: Preparation of hydroxy aromatic carboxylic acids and ester derivatives thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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## WEST

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## Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20020040159 A1

L9: Entry 1 of 3

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040159

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040159 A1

TITLE: Preparation of substituted aromatic carboxylic acid esters

PUBLICATION-DATE: April 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boaz, Neil W.	Kingsport	TN	US	
Coleman, M. Todd	Batesville	AR	US	
Hightower, Timothy R.	Batesville	AR	US	

US-CL-CURRENT: 560/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 6337418 B1

L9: Entry 2 of 3

File: USPT

Jan 8, 2002

US-PAT-NO: 6337418

DOCUMENT-IDENTIFIER: US 6337418 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Preparation of C1-C5 alkyl esters of nitro or thioether substituted aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 4237322 A

L9: Entry 3 of 3

File: USPT

Dec 2, 1980

US-PAT-NO: 4237322

DOCUMENT-IDENTIFIER: US 4237322 A

TITLE: Process for preparation of 1,5-dimethylbicyclo[3,2,1]octan-8-ol

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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## WEST Search History

DATE: Wednesday, April 09, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L12	L3 with aryl halide with carbon monoxide	3	L12
L11	l1 with aromatic carboxylic acid ester	7	L11
L10	l1 and aromatic carboxylic acid ester	145	L10
L9	560/20 and l3	3	L9
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L7	wo-2000061538-\$.did.	0	L7
L6	L5 and carbon monoxide	3	L6
L5	L3 with aryl halide	3	L5
L4	L3 with nitro\$7 aryl halide	0	L4
L3	L1 with aromatic carboxylic acids	453	L3
L2	L1 and aromatic carboxylic acids	4529	L2
L1	nitro or thioether	169590	L1

END OF SEARCH HISTORY

FILE ORDERING

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 **PALM INTRANET**

Day : Wednesday

Date: 4/9/2003

Time: 14:12:21

**Inventor Name Search Result**

Your Search was:

Last Name = HIGHTOWER

First Name = TIMOTHY

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10004413</u>	Not Issued	030	12/06/2001	PREPARATION OF SUBSTITUTED AROMATIC CARBOXYLIC ACID ESTERS	HIGHTOWER, TIMOTHY R.

**Inventor Search Completed: No Records to Display.**

	<b>Last Name</b>	<b>First Name</b>
<b>Search Another:</b>	<input type="text" value="hightower"/>	<input type="text" value="timothy"/>
<b>Inventor</b>	<input type="button" value="Search"/>	

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PALM INTRANET

Day : Wednesday

Date: 4/9/2003

Time: 14:11:04

## Inventor Name Search Result

Your Search was:

Last Name = BOAZ

First Name = NEIL

Application#	Patent#	Status	Date Filed	Title	Inv Na
<u>60264411</u>	Not Issued	020	01/26/2001	PHOSPHINO-AMINOPHOSPHINES	BC NE W
<u>60236564</u>	Not Issued	020	09/29/2000	PHOSPHINO-AMINOPHOSPHINES	BC NE W
<u>60236544</u>	Not Issued	020	09/29/2000	PROCESS FOR THE PREPARATION OF ENANTIOMERICALLY-ENRICHED CYCLOPROPYLALANINE DERIVATIVES	BC NE W
<u>60222317</u>	Not Issued	020	08/01/2000	PROCESS FOR THE PREPARATION OF ALKYL 1-METHYLCYCLOPROPANECARBOXYLATE	BC NE
<u>60133686</u>	Not Issued	159	05/10/1999	POLY(3-CYCLOPROPYL-3-HYDROXYPROPIONATE) AND PROCESSES FOR ITS PREPARATION AND DERIVATIVES THEREOF	BC NE W
<u>60087338</u>	Not Issued	159	05/29/1998	PROCESS FOR THE PREPARATION OF ACETYLENES	BC NE
<u>60048758</u>	Not Issued	159	06/03/1997	PROCESS FOR THE PREPARATION OF THIOETHER-SUBSTITUTED AROMATIC KETONES	BC NE
<u>60048398</u>	Not Issued	159	06/03/1997	PROCESS FOR THE PREPARATION OF 1,3-DICARBONYL COMPOUNDS	BC NE
<u>10105516</u>	Not Issued	030	03/25/2002	PHOSPHINOMETALLOECENYLAMIDES AS NOVEL LIGANDS FOR ASYMMETRIC CATALYSIS	BC NE W
<u>10004413</u>	Not Issued	030	12/06/2001	PREPARATION OF SUBSTITUTED AROMATIC CARBOXYLIC ACID ESTERS	BC NE
<u>09957549</u>	Not Issued	041	09/20/2001	PROCESS FOR THE PREPARATION OF ENANTIOMERICALLY-ENRICHED CYCLOPROPYLALANINE DERIVATES	BC NE W
<u>09957380</u>	Not Issued	093	09/20/2001	PHOSPHINO-AMINOPHOSPHINES	BC NE W
<u>09957182</u>	Not Issued	041	09/20/2001	HIGHLY ENANTIOMERICALLY PURE LACTAM-SUBSTITUTED PROPANOIC ACID	BC NE

				DERIVATIVES AND METHODS OF MAKING AND USING SAME	W <sub>1</sub>
<u>09897872</u>	<u>6552217</u>	150	07/02/2001	PROCESS FOR THE PREPARATION OF ALKYL 1-METHYLCYCLOPROPANECARBOXYLATE	BC NE W <sub>1</sub>
<u>09693687</u>	<u>6362343</u>	150	10/23/2000	PROCESS FOR HALOHYDRIN PREPARATION	BC NE
<u>09546817</u>	Not Issued	041	04/11/2000	POLY(3-CYCLOPROPYL-3-HYDROXYPROPIONATE) AND PROCESSES FOR ITS PREPARATION AND DERIVATIVES THEREOF	BC NE W <sub>1</sub>
<u>09369300</u>	<u>6096929</u>	150	08/06/1999	PROCESS FOR THE PREPARATION OF THIOETHER-SUBSTITUTED AROMATIC KETONES	BC NE
<u>09344370</u>	<u>6210956</u>	150	06/25/1999	OPTICALLY ACTIVE CIS-1,3-CYCLOHEXANEDICARBOXYLIC ACID MONOESTERS WITH HIGH ENANTIOMERIC PURITY AND PROCESS FOR THEIR PREPARATION	BC NE
<u>09321607</u>	Not Issued	161	05/28/1999	PROCESS FOR THE PREPARATION OF ACETYLENES	BC NE
<u>09290205</u>	<u>6162924</u>	150	04/09/1999	AN IMPROVED PROCESS FOR HALOHYDRIN PREPARATION	BC NE
<u>09288642</u>	<u>6337418</u>	150	04/09/1999	PREPARATION OF C1-C5 ALKYL ESTERS OF NITRO OR THIOETHER SUBSTITUTED AROMATIC CARBOXYLIC ACIDS	BC NE
<u>09088778</u>	<u>6100431</u>	150	06/02/1998	PROCESS FOR THE PREPARATION OF THIOETHER-SUBSTITUTED AROMATIC KETONES	BC NE
<u>09088775</u>	<u>6143935</u>	150	06/02/1998	PROCESS FOR THE PREPARATION OF 1,3-DICARBONYL COMPOUNDS	BC NE
<u>09060959</u>	<u>6028213</u>	150	04/16/1998	OPTICALLY ACTIVE CIS-1,3-CYCLOHEXANEDICARBOXYLIC ACID MONOESTERS WITH HIGH ENANTIOMERIC PURITY AND PROCESS FOR THEIR PREPARATION	BC NE
<u>08839477</u>	<u>5886214</u>	150	04/14/1997	PROCESS FOR THE PRODUCTION OF CHIRAL UNSATURATED ALCOHOLS IN HIGH OPTICAL PURITY	BC NE W <sub>1</sub>
<u>08837134</u>	<u>5777164</u>	150	04/14/1997	PROCESS FOR THE PREPARATION OF HIGH PURITY O-SUBSTITUTED HYDROXYLAMINE DERIVATIVES	BC NE W <sub>1</sub>
<u>08803297</u>	<u>5874432</u>	250	02/20/1997	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
<u>08449152</u>	<u>5596012</u>	150	05/24/1995	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
<u>08445118</u>	<u>5597841</u>	150	05/19/1995	NOVEL 2-SACCHARINYLMETHYL ARYL CARBOXYLATES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND	BC NE



				METHOD OF USE THEREOF	
<u>08270964</u>	<u>5650422</u>	150	07/05/1994	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
<u>08223483</u>	Not Issued	161	04/04/1994	ADDITIVE ASSISTED ENZYMATI ESTERIFICATION OF 1,2-DIOL MONOSULFONATES	BC NE
<u>08116416</u>	<u>5512589</u>	150	09/03/1993	NOVEL 2-SACCHARINYLMETHYL ARYL CARBOXYLATES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
<u>08114808</u>	<u>5312950</u>	150	08/31/1993	METHOD FOR PURIFICATION OF ALCOHOLS	BC NE
<u>08067637</u>	<u>5371074</u>	250	05/24/1993	USE OF SACCHARIN DERIVATIVES AS PROTEOLYTIC ENZYME INHIBITORS	BC NE
<u>07999240</u>	<u>5250743</u>	150	12/31/1992	METHOD OF INTERCONVERSION OF ENANTIOMERS OF ACYCLIC 1,2-DIHYDROXY-3-ALKENES	BC NE
<u>07854944</u>	<u>5306638</u>	150	03/20/1992	AMINE ADDITIVE ASSISTED ENZYMATI ESTERIFICATION OF 1,2-DIOL MONOSULFO NATES	BC NE
<u>07793033</u>	<u>5236917</u>	150	11/15/1991	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
<u>07782016</u>	<u>5128339</u>	150	10/24/1991	PROTEOLYTIC ENZYME INHIBITION METHOD	BC NE
<u>07660839</u>	<u>5126268</u>	150	02/26/1991	ALCOHOL-ESTER SPARATION BY REACTION WITH ACETATE	BC NE
<u>07660838</u>	Not Issued	161	02/26/1991	ALCOHOL-ESTER SEPARATION BY REACTION WITH BICARBONATE IN POLYHYDROXY SOLVENT	BC NE
<u>07660837</u>	<u>5126267</u>	150	02/26/1991	PROTECTED HYDROXY METHOD FOR ALCOHOL-ESTER SEPARATION	BC NE
<u>07660830</u>	<u>5445963</u>	150	02/26/1991	ALCOHOL-ESTER SEPARATION BY RECRYSTALLIZATION	BC NE
<u>07608068</u>	Not Issued	161	11/01/1990	NOVEL 2-SACCHARINYLMETHYL ARYL CARBOXYLATES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
<u>07514920</u>	Not Issued	168	04/26/1990	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC EXZYME INHIBITORS AND COMPOSITINS AND METHOD OF USE THEREOF	BC NE
<u>07501570</u>	Not Issued	168	03/30/1990	METHOD FOR THE PREPARATION OF OPTICALLY ACTIVE ALPHA, BETA-UNSATURATED EPOXIDES	BC NE
<u>07412260</u>	<u>4921798</u>	150	09/25/1989	SYNTHESIS OF(ARYL OR ARYLALKYL)-3-HYDROXYPROPIONIC ACIDS AND ARYL ALKANEDIOLS HAVING HIGH OPTICAL	BC NE

				PURITY	
<a href="#">07347126</a>	Not Issued	168	05/04/1989	NOVEL SACCHARIN DERIVATIVES	BC NE
<a href="#">07347125</a>	Not Issued	168	05/04/1989	INHIBITION OF SERINE PROTEASES IN THE TREATMENT OF DEGENERATIVE DISORDERS	BC NE
<a href="#">07290557</a>	Not Issued	161	12/27/1988	ENANTIOSELECTIVE ENZYMATIC ESTERIFICATION OF FERROCENYL ALCOHOLS	BC NE
<a href="#">07117585</a>	Not Issued	161	11/06/1987	AMINO-SUBSTITUTED PYRYLIUM DYES AND USES THEREOF	BC NE

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	<b>Last Name</b>	<b>First Name</b>
<b>Search Another:</b>	<input type="text" value="boaz"/>	<input type="text" value="neil"/>
<b>Inventor</b>	<input type="button" value="Search"/>	

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Day : Wednesday

Date: 4/9/2003

Time: 14:11:36

 **PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = COLEMAN

First Name = M. TODD

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09288642</u>	<u>6337418</u>	150	04/09/1999	PREPARATION OF C1-C5 ALKYL ESTERS OF NITRO OR THIOETHER SUBSTITUTED AROMATIC CARBOXYLIC ACIDS	COLEMAN , M. TODD
<u>09088775</u>	<u>6143935</u>	150	06/02/1998	PROCESS FOR THE PREPARATION OF 1,3-DICARBONYL COMPOUNDS	COLEMAN , M. TODD

**Inventor Search Completed: No Records to Display.****Search Another:  
Inventor**

Last Name

coleman

First Name

m. todd

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=> d 14 1-2 ibib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:742054 CAPLUS

DOCUMENT NUMBER: 133:309757

TITLE: Preparation of **nitro-substituted** aromatic carboxylic acid esters from **nitro-substituted** aryl halides, carbon monoxide, and an alcohol.

INVENTOR(S): Boaz, Neil W.; Coleman, M. Todd; Hightower, Timothy R.

PATENT ASSIGNEE(S): Eastman Chemical Company, USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061538	A1	20001019	WO 2000-US6645	20000315
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6337418	B1	20020108	US 1999-288642	19990409
EP 1169295	A1	20020109	EP 2000-916323	20000315
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
US 2002040159	A1	20020404	US 2001-4413	20011206
PRIORITY APPLN. INFO.:			US 1999-288642	A 19990409
			WO 2000-US6645	W 20000315

OTHER SOURCE(S): CASREACT 133:309757; MARPAT 133:309757

AB **Nitro-substituted** arom. carboxylic acid esters were prepd. by reaction of **nitro-substituted** aryl halides with CO and an alc. in the presence of a metal catalyst and a proton acceptor in the absence of H<sub>2</sub>O and O<sub>2</sub>. Thus, dichlorobis(triphenylphosphine)palladium, 4-bromo-3-nitrobenzotrifluoride, and Et<sub>3</sub>N in MeOH were heated at 60.degree. under 1 atm. CO to give 98% Me 2-nitro-4-trifluoromethylbenzoate. The latter was converted to 1-(2-methylthio-4-trifluoromethylphenyl)-3-cyclopropyl-1,3-propanedione.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:535238 CAPLUS

DOCUMENT NUMBER: 115:135238

TITLE: Nucleophilic substitution of nitro aromatic halides by electrogenerated polysulfide ions in dimethylacetamide

AUTHOR(S): Benaichouche, Meriem; Bosser, Gerard; Paris, Jacky; Plichon, Vincent

CORPORATE SOURCE: Lab. Synth. Etud. Phys.-Chim. Org., UFR Sci., Tours, 37200, Fr.

SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1991), (6), 817-23

CODEN: JCPKBH; ISSN: 0300-9580

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Electrogenerated polysulfide ions S<sub>3</sub>.bul.- and S<sub>8</sub>.bul.- readily react with halo aroms., RX, activated by nitro electron-withdrawing substituents in dimethylacetamide. Nucleophilic substitutions on fluoro-2,4-dinitrobenzene and halo-2- or 4-nitrobenzenes (X = F, Cl, Br, I) lead to

the colored aryl sulfide (X = S-) and aryl disulfide (X = S-S-) ions. From the reaction kinetics studied by UV-Vis spectrophotometry, the order of reactivity is RF > RBr, RI > RCl. The proposed SNAr mechanism implies that the dianions S62- and S82- are the nucleophilic agents (S62- .mchgt. S82-) rather than the S3.bul.- radical anions.

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(FILE 'HOME' ENTERED AT 14:16:34 ON 09 APR 2003)

FILE 'CAPLUS' ENTERED AT 14:16:45 ON 09 APR 2003

L1	0 S NITRO? AROMATIC CARBOXYLIC ESTER
L2	0 S NITRO? AND AROMATIC CARBOXYLIC ESTER
L3	0 S NITRO-SUBSTITUTED AND AROMATIC CARBOXYLIC ESTER
L4	2 S NITRO-SUBSTITUTED AND ARYL HALIDE
L5	0 S 1-2 IBIB ABS HITSTR